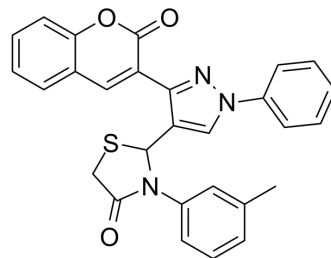


## hCAIX-IN-10

<b>Cat. No.:</b>	HY-147827
<b>CAS No.:</b>	2497504-72-8
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>21</sub> N <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	479.55
<b>Target:</b>	Carbonic Anhydrase
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	hCAIX-IN-10 (Compound 6i) is a selective carbonic anhydrase IX and XII inhibitor with K <sub>i</sub> s of 61.5 and 586.8 nM for hCA IX and hCA XII, respectively. hCA IX and hCA XII are transmembrane isoforms which have been characterized as biomarkers for several types of tumors. The hCA XII assists in maintenance of acid-base homeostasis in normal as well as tumor cells <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Ki: 61.5 nM (hCA IX), 586.8 nM (hCA XII) <sup>[1]</sup>
<b>In Vitro</b>	hCAIX-IN-10 (compound 6i) is a strong inhibitor of hCA IX rather than hCA XII in vitro <sup>[1]</sup> . hCAIX-IN-10 (0.1 nM-0.1 mM; 6 h) inhibits carbonic anhydrases enzyme activity <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Pavitra S Thacker, et al. Synthesis and biological evaluation of some coumarin hybrids as selective carbonic anhydrase IX and XII inhibitors. *Bioorg Chem.* 2020 Nov;104:104272.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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